

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-57 (canceled).

Claim 58 (previously presented): A display system comprising:

a dimming device capable of switchably presenting a light reflecting state or a light transmitting state; and

a display device for performing display by modulating incident light; wherein

the dimming device is a dimming device having a layered structure including a first layer and a second layer, such that a light reflectance of the first layer changes in response to an external stimulation;

the first layer contains a first material whose optical characteristics change in accordance with a concentration of a specific element;

the second layer contains a second material capable of containing the specific element, the second material releasing or absorbing the specific element in accordance with the external stimulation;

the element is hydrogen, and the first material is able to transition between a light reflecting state and a light transmitting state in accordance with a hydrogen concentration;

the second layer contains a hydrogen storage material; and

the display system operates in a region where respective hydrogen equilibrium pressure-composition isotherms (PTC characteristic curves) of the first layer and the second layer are substantially flat.

Claim 59 (previously presented): The display system of claim 58, wherein, in the region

where the PTC characteristic curves are substantially flat, hydrogen equilibrium pressures of the first layer and the second layer are about the same.

Claim 60 (previously presented): The display system of claim 59, wherein a range of hydrogen storage amount of the second layer in the region where the PTC characteristic curve is substantially flat encompasses a range of hydrogen storage amount of the first layer in the region where the PTC characteristic curve is substantially flat.

Claim 61 (canceled).

Claim 62 (previously presented): A display system comprising:
a dimming device capable of switchably presenting a light reflecting state or a light transmitting state; and
a display device for performing display by modulating incident light; wherein
the dimming device is a dimming device having a layered structure including a first layer and a second layer, such that a light reflectance of the first layer changes in response to an external stimulation;
the first layer contains a first material whose optical characteristics change in accordance with a concentration of a specific element;
the second layer contains a second material capable of containing the specific element, the second material releasing or absorbing the specific element in accordance with the external stimulation; and
the second material releases or absorbs the specific element in response to light irradiation.

Claim 63 (previously presented): The display system of claim 62, wherein the second layer contains a material having a photocatalytic ability.

Claim 64-69 (canceled).

Claim 70 (currently amended): A display system comprising:
a dimming device capable of switchably presenting a light reflecting state or a light transmitting state; and
a display device for performing display by modulating incident light, wherein,
the dimming device is a dimming device comprising a dimming layer whose light reflectance changes in response to an external stimulation; ~~and~~
the dimming layer contains a first material whose optical characteristics change in accordance with a concentration of a specific element, the first material being particles; and a diameter of the particles is equal to or greater than 350 nm and equal to or less than a thickness of the dimming layer.

Claim 71 (previously presented): The display system of claim 70, wherein the display device performs display by modulating light transmitted through the dimming device and/or light reflected by the dimming device.

Claim 72 (previously presented): The display system of claim 70, wherein the first material is able to transition between a light reflecting state and a light transmitting state in accordance with the concentration of the specific element.

Claim 73 (previously presented): The display system of claim 72, wherein the dimming layer diffuse-reflects light when the first material is in the light reflecting state.

Claim 74 (canceled).

Claim 75 (previously presented): The display system of claim 70, wherein the specific element is hydrogen.

Claim 76 (previously presented): The display system of claim 70, further comprising a conversion layer containing a second material capable of containing the specific element, wherein the second material releases or absorbs the specific element in accordance with the external stimulation.

Claim 77 (previously presented): The display system of claim 76, wherein the specific element is hydrogen, and the conversion layer contains a hydrogen storage material.

Claim 78 (previously presented): The display system of claim 77 operating in a region where respective hydrogen equilibrium pressure-composition isotherms (PTC characteristic curves) of the dimming layer and the conversion layer are substantially flat.

Claim 79 (previously presented): The display system of claim 78, wherein, in the region where the PTC characteristic curves are substantially flat, hydrogen equilibrium pressures of the dimming layer and the conversion layer are about the same.

Claim 80 (previously presented): The display system of claim 79, wherein a range of hydrogen storage amount of the conversion layer in the region where the PTC characteristic curve is substantially flat encompasses a range of hydrogen storage amount of the dimming layer in the region where the PTC characteristic curve is substantially flat.

Claim 81 (previously presented): The display system of claim 70, wherein the second material releases or absorbs the specific element through exchanges of electrons.

Claim 82 (previously presented): The display system of claim 70, wherein the second material releases or absorbs the specific element through an electrochemical reaction.

Claim 83 (previously presented): The display system of claim 70, comprising a pair of conductive layers for forming an electric field for causing ions of the specific element to move from the second material to the first material, or from the first material to the second material.

Claim 84 (previously presented): The display system of claim 83, wherein the dimming layer and the conversion layer are positioned between the pair of conductive layers.

Claim 85 (previously presented): The display system of claim 83, wherein the dimming layer has conductivity, and functions as one of the pair of conductive layers.

Claim 86 (previously presented): The display system of claim 83, wherein the conversion layer has conductivity, and functions as one of the pair of conductive layers.

Claim 87 (previously presented): The display system of claim 70, wherein the conversion layer has a light transmitting ability.

Claim 88 (previously presented): The display system of claim 70, wherein at least one of the dimming layer and the conversion layer has a multi-layer structure.

Claim 89 (currently amended): The display system of claim ~~49~~ 70, wherein the display device is a liquid crystal display device including a pair of substrates and a liquid crystal layer provided between the pair of substrates.

Claim 90 (currently amended): The display system of claim ~~49~~ 70, further comprising an illumination device disposed on an opposite side from a viewer with respect to the display device.

Claim 91 (withdrawn): The display system of claim 90, wherein the dimming device is

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disposed between the display device and the illumination device.

Claim 92 (currently amended): The display system of claim ~~49~~ 70, wherein the dimming device is disposed inside the display device.

Claims 93-95 (canceled).

Claim 96 (withdrawn): The display system of claim 70, wherein the display device includes a first color filter; the dimming device includes a second color filter; and the second color filter is disposed on an opposite side from a viewer with respect to the dimming layer.